

-Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

VOL. 21 - NO. 14

OAK RIDGE, TENNESSEE

Wednesday, April 19, 1967

Majority Of AEC Employees Still Live **Away From Oak Ridge And Commute**

The majority (57 per cent) of employees here in the Atomic Energy Commission facilities still commute to work. As in years past, the number of persons commuting to work exceed the number of Oak Ridge residents (43 per cent) employed in the atomic energy program. The Oak Ridge payroll amounted to \$56,000,000 in 1966 distributed to 5,800 employees.

S. R. Sapirie, manager of the AEC's Oak Ridge Operations, in announcing the employment and payroll figures for Oak Ridge, pointed out that in 1966 the payroll of \$120,000,000 exceeded that of 1965 by more than three million dollars. The average annual employment remained at approximately 13,500 over the same period.

"We are particularly pleased with the steady over-all employment in 1966," Sapirie stated, "and the wide distribution of the payroll again stresses the interdependence of Oak Ridge and the surrounding communities."

Last year approximately 2,800 Knoxvillians who drove daily to work in Oak Ridge received more than \$24,000,000 in wages, representing more than 20 per cent of both the total payroll and employ-

Some 5,800 of those employed in Oak Ridge also lived in Oak Ridge. They represented 43 per cent of the total employment and had a payroll of more than \$56,000,000, or 47 per cent of the total

Employment in Oak Ridge is divided among the Atomic Energy Commission and its principal operating contractors — Union Carbide Corporation, Oak Ridge Associated Universities, the University of Tennessee, and Management Services, Incorporated.

Following is a breakdown of the 1966 employment and payroll for the principal communities in this area:

Place of Residence	Number of Employees	Total Payroll
Oak Ridge	5,800	\$56,335,133
Knoxville	2,802	24,348,343
Clinton	851	6,723,734
Kingston	735	6,356,931
Lenoir City	582	4,434,010
Harriman		2,617,163
Oliver Springs	330	2,354,755

The balance of employees live in other communities or rural areas ranging up to 50 miles. An additional 174 persons, or approximately one per cent of the employment, commute more than 50 miles to Oak Ridge each day.

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SIGNAL HONORS WENT TO THE REACTOR DIVISION in Y-12 recently (one of the Oak Ridge National Laboratory divisions in the plant), as the division was recognized for more than 16 years of operation without a lost-time accident. This represents more than 8,000,000 man-hours, an enviable record indeed. From left are the Safety Coordinator for the division Robert Helton, Y-12 Superintendent Roger F. Hibbs, presenting the plaque to Sam E. Beall, division director. H. G. MacPherson, deputy director of ORNL, and former head of the Reactor Division, looks on from right.

It took man almost 10,000 years to perfect the art of cooking indoors. Now that the feat has been accomplished, man is returning to the outdoors for his culinary artistry. Last year more than \$100 million was spent for barbecue grills and outdoor cooking equipment in this country!

PROGRESS, IT'S WONDERFUL Reactor Division Passes Safety Landmark In Y-12

illustrious safety record in Y-12. went beyond the 8,000,000 manhour mark without a lost time in-

No single chargeable accident in its entire history of being! . . more than 16 years of operations.

The Reactor Division was formed in the latter part of 1960 from two former divisions, the Reactor Experimental Engineering Division, known then as REED, and the Reactor Projects Division. The latter group was an outgrowth of the former Aircraft Nuclear Propulsion (ANP) Division. These ORNL divisions have been located within the physical confines of Y-12 since their incep-

Safety factors in the Reactor Division are many and varied. High pressures, relatively high temperatures, corrosive acids and other normal hazards met in a chemical or industrial plant are encountered by the division's personnel daily.

Both the present Reactor Division and its ancestoral divisions have maintained the spotless record, contributing greatly to Y-12's safety history.

Hazards Encountered

Work in the division consists of reactor development, desalina-tion of sea water, and is currently involved in terrestrial as well as underseas reactor work. Many experiments are conducted on several elevations in Buildings 9201-3 and 9204-1. Some of the experi-

The Oak Ridge National Lab-| ments take place 50 to 60 feet oratory's Reactor Division has above the floor level. The appapassed another landmark in its ratus involved often compels the scientists to work in extremely In January of this year, the group confining areas. To prevent injuries due to these cramped spaces and heights, precautions. are taken to insure the employee's personal safety.

Safety is considered the responsibility of each individual in the Division. It is emphasized from director S. E. Beall on down.

Interest In Safety

Interesting safety meetings are the rule, rather than the exception, in Reactor Division activities. Recently, Dr. Reese W. Patterson, Knoxville eye specialist, showed the group colored slides of various types of eye injuries. L. G. Matthews, from Union Carbide's Linde Division, has lectured to the group on the hazards of compressed gases. Arthur Upton, Biology Division, has talked to Reactor personnel on radiation hazards. Dr. Joe Tittle, Oak Ridge Continued on Page 4



C. M. LAY, LABORATORY DEVELOPMENT, demonstrates to L. E. Burkhart, left, his patent application development "Fringes to Inches Converter." The laboratory man's converter brought him the patent application announced in a congratulatory letter from C. E. Larson, president of the Nuclear Division, accompanied by the usual one dollar.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated Two Days Or 6,000 Man-Hours (Unofficial Estimate) Through April 16 Without A Disabling Injury Working Safely Is

Very Smart Business

The Bulletin

Published Weekly For The Y-12 Employees Of UNION CARBIDE CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG

Membe

Appalachian Industrial Editors' Association

American Association Industrial Editors

OFFICE Post Office Box Y Oak Ridge, Tenn. 37830 Room 137 Bldg. 9704-2 Telephone 3-7100

Patton Is April Skeet Top-Shot

Finis Patton fired first in the Skeet Tournament, held Sunday, April 9. His 49.243 score was high for the field . . . followed by R. Allston, 47.537 and H. Wills,

Asmanes, Davy and Case were firing under penalty (because of previous winnings) and could not Bumpers Champs qualify in this shoot.

Sunday, May 14, at 1 p.m. at the Oak Ridge Sportsman's Association range. All Carbide employees and their families are invited to come out and shoot or watch the antics of some of the shooters when they miss the target.

Shotguns are available for shooters wanting to try the game before procuring their own equipment. Old "pros" will also be around to give needed advise.

April 9 Firings:

Shooter	Score
F. Welfare, ORNL	45.781
C. Asmanes, Y-12	
R. Allstun, Y-12	47.537
H. Wills, ORNL	47.021
W. Davy, K-25	47.659*
F. Patton, Y-12	49.243
J. Barton, K-25	45.000
J. Case, Y-12	47.491*
*Under penalty.	

Archery League Sets Beginning April 27

The three-plant Archery League will commence firing with a practice session Thursday, April 27. There will be two relays fired each Thursday, one at 5:15 p.m. and one at 8:15. There will be no late-starting, so archers are urged to be on time.

There will be three six-weeks 15, and July 27. Awards will be coach. given in both bare bow and free style classes.

Recreation



Monday, April 24 BOWLING: C League, Position

Roll-Off, 5:45 p.m., Ark Lanes. PHYSICAL FITNESS: (For Women) 7 p.m., Oak Ridge High Editor School Girls' Gym.

Tuesday, April 25
PHYSICAL FITNESS: (For Men) 7:30 p.m., Oak Ridge High School Gym.

Wednesday, April 26

GOLF: 4:30 p.m. Deadline for entering Wallace Hills tourna

CARBIDE RIFLE LEAGUE: 7 p.m., Clinton Rifle Range.

Thursday, April 27 GOLF: 8 a.m. Tee-off drawings

for Saturday's matches. Saturday, April 29

GOLF: First tournament of the season, 6:30 a.m. on. Tee-off times will be given to foursome leaders by telephone.

ALL WEEK SOFTBALL: Practice as sched-

The next firing will be held In Classic Alleys

The Bumpers, who took the first-half crown in the Classic Bowling League, now wear the crown for the full season. They defeated the Rebels in last week's roll-off, a good 173 pins . . . or 2884 to 2711.

The Bumpers (Bill Stephens, Elmer Green, C. W. Craven, Red Halsey and Ray Galford-strong) pin-count naturally.

The Rebels, with Norma Jarvis, Jim Shoemaker, J. C. Bryan, L. crown by taking the last half E. Sikes and Jack Spears won the action in the league's schedule. Jim Shoemaker, J. C. Bryan, L. last half of the Classic's race.

Scores went game-by-game as follows: Game number one: Bumpers 974 . . . Rebels 878; game two: Bumpers 979, Rebels 940 . . . game three: 931 for the Bumpers, 893 for the Rebels.

Classic-men have organized for next season's play. All that's required now, is a little calendarwatching.

Pictures of trophy-winners and a special patch presentation will appear in next week's Bulletin.

you need not be an expert to shoot. All beginners are welcome sections beginning May 4, June and someone will be available to 9, 15-9, 15-3, and 15-8. The Tiger-

ven in both bare bow and free yle classes.

Since this is a handicap league,

Tee-Off Time Application For Wallace Hills (Maryville) Tourney

Saturday, April 29

Foursome	
	, Leader
Leader's office phone	
Home phone	
Tee-Off Time Preferred	

Fill out completely and return to the Recreation Office, Building 9704-2. Deadline for entering is 4:30 p.m. Wednesday, April 26. Tee-off times will be drawn the next day, Thursday, April 27, at 8:30 a.m.

Rounders By One Point In C Race

The Rounders keep a one-point lead in the C Bowling League. They won three points from the Fireballs last week.

The only four-point win of the day went to the cellar-dwellers the Royal Flush over the Big Five.

Other three-point wins went to the Sunflowers superior to the Invalids, the Rodders 'round the Strikers, the Parbusters past the Badgers and the Rollmasters by the HiLifers.

Red Halsey, Sunflowers, and Herm Butler, Parbusters, tied for high single scratch game with 223. Butler's 252 handicap single was high. Louie Brooks, Parbusters, posted a 576 scratch, 669 handicap series.

The Sunflowers sailed into scratch counting in singles with . . while the Parbusters rolled a 1053 handicap single count. The Rodders rolled high . . . 2507 scratch, 2924 series handicap.

Team	***	T.
	VV	
Rounders	33	19
Badgers		20
Strikers		23
Big Five	27	25
Fireballs		25
HiLifers	261/2	2516
Sunflowers	26	26
Rodders	25	27
Parbusters	24	28
Rollmasters	2112	3015
Invalids	21	31
Royal Flush	20	32

Beavers Wear Big Volleyball Crown

The Y-12 Beavers comfortably wear the crown in the Volleyball League . . . thanks to last week's previously won the first half in league action, and capped the full

Action began Tuesday, on Court A as the Scrubs downed the Old Men 15-10, 15-6, 15-10, and 15-4. The Mix-Ups mauled the Neophytes 15-5, 15-7, 15-8, and 15-9. The Beavers beat the Charley Brown's 15-0, 15-0 and 15-9.

On Court B the Ecobums edged by the K-25 Sports 15-10, 15-7, 15-11, and 15-10. The Y-12 Eagles Roses 'N Thorns won game two soared over the Beagles 15-10, 15-8, 15-11, and 15-10. The Set-Ups won three from the Tigercats 15-10, 17-15, and 15-5. The Tigercats George Cantrell) captured the took game two 16-14.

Thursday's action began as the Set-Ups trimmed the Eagles 15cats tamed the K-25 Sports 15-8 then turned and lost three 17-5, 15-7 and 15-10. The Ecobums defeated the Charley Brown's 15-

7, 15-11, 15-7, and 15-3. On Court B the Old Men ousted the Beagles 15-5, 15-6, 15-4, and 15-0. The Beavers finished in their best form by defeating the Neophytes 15-5, 15-4, 15-6, and 15-3. The Scrubs got in the last licks by defeating the Mix-Ups 15-3, 15-6, 15-12 and 15-9.

A play-off is set this week between the ORNL Scrubs and Set-Ups for second place winners. The

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Final league standings:	
Team	W
Beavers, Y-12	42
Scrubs, ORNL	38
Set-Ups, ORNL	33
K-25 Sports	30
Tigercats, ORNL	28
Old Men, ORNL	28
Ecobums, ORNL	19
Eagles, Y-12	18
Mix-Ups, K-25	12
Neophytes, Y-12	6
Charley Brown's, ORNL	6
Readles OPMI	2

Careless workers pay and learn careful workers stay and earn.





TROPHY-TAKERS IN Y-12'S Mixed Bowling League smile their approval on roll-off night . . . last Wednesday, April 12. At the top are the Mustangs who took top honors in the women-men league . . . and in the lower photo are the Roses 'N Thorns. The Mustangs are, from left, Roy Scates, Mildred Morris, Irene Carmack and George Cantrell. The Roses 'N Thorns, runners-up, consists of Bill and Barbara Hackett, Dessie and Roy Worley. The close roll-off last week climaxed the season's end for the mixed bowlers.

won all three games, taking total eight-game sweeps. They had previously won the first half in Mustangs Win Mixed Bowling Roll-Off By 38 Pins As League Finishes Play

Bowling League went right down began splitting in the seventh to the wire last week . . . nip frame . . . getting three in a row and tuck until about the seventh of the same calibre. frame of the final game. The Mustangs overcame the Roses 'N Thorns to take the league crown by 38 pins . . . 2202 to 2164.

The Mustangs won game one by the thread-margin of one pin. The by eight pins.

The Mustangs (Irene Carmack, Mildred Morris, Roy Scates and league's last half to qualify for the championship match. The Roses 'N Thorns (Bill and Barbara Hackett, Dessie and Roy Worley) had previously won the first half.

The Mustangs broke loose in game three while Roy Scates posted the high game of the night . . 223 scratch. Backed by cleanup man George Cantrell's 185 . . it proved too much for the

Reimann Takes 2nd Hi-Rifle Shooting

a hot 480 out of a possible 500 to alike. Scrubs took the second half in second place, and the Set-Ups fin- 2nd All Carbide High-Power Rifle L. Menchoffer, steam iron; Charished in the same slot in the first match of the season. Y-12's Jack ley Hughes, can opener; Ted Huff came in with a 450, while Goodman, attache case; Herman Y-12er Ed Scott nosed out fellow plantsman Leonard Abbatiello for a third with a 440-7x compared to Leonard's 440-5x.

Other scores were:	
Firer	Sco
Dudley Hewett, ORNL	43
Dick Sears, ORNL	
Anthony Abbatiello, ORNL	
Jack Mrochek, ORNL	42
Walt Zobel, ORNL	
Hugo Bertini, ORNL	
Jim Bell, ORNL	39
Ray Ward, ORNL	38
Bill Galyon, Y-12	37
Bill Denton, Y-12	32
Don Kiplinger, K-25	32

The roll-off for the Y-12 Mixed | R 'N T crowd as Captain Hackett

The Mixed League has already organized for action for next fall. ed the winners last week after the close roll-off.

Dance Crowd Up For Spring Frolic

About 300 Y-12 souls gathered Friday, April 7, to usher in the Spring Season. The Y-12 Dance staged at the Oak Terrace brought out a good crowd of celebrants for the occasion.

A special skit was featured during intermission wherein Mlls. Schwenn, Sommerfeld, Hopkins and Strasser (looking more like the Ku Klux Klan than chorus girls) gave a rendition of a current tune led by Her Excellency the Mayor (A. K. Bissell)!

The music was provided by Alan Atkins and proved enjoy-George Reimann, ORNL, fired able to the dancers and listeners

Butler, electric massager; Peter Vines, picnic jug; Charley Pigott, shaving kit; Mrs. Dick Hayes, world globe; Frank Broome, Skotch Kooler; Maggie Bloomer, wall thermometer; and Katy Vines, umbrella.

Recreation pays a special thanks to all those who worked so diligently to decorate the hall, publicize the dance, and work up the special skit. Interest of this type is what really makes a dance.





UNION CARBIDE CORPORATION NUCLEAR DIVISION P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

(RETURN REQUESTED)

BULK RATE U.S. Postage PAID Oak Ridge, Tenn. Permit No. 71

ORAU's Comas Is HPS Speaker

The East Tennessee Chapter of the Health Physics Society will meet Monday, April 24, at the keeping with this, a new service Oak Ridge Country Club. A social hour will open the program at 5:30 p.m., to be followed by dinner and the technical session.



Dr. Comas

V. Comas, rawill speak on "Medical Ther-Physics Consid-Comas was born in Spain and

received his MD from the University of Barcelona. He came to the United States in 1950 and served as a resident radiologist in many areas including the Barnard Free Skin and Cancer Hospital in Saint Louis, the Penrose Cancer Hospital in Colorado Springs, and the ORINS Medical Division. In 1958 he rejoined ORINS as a staff radiotherapist. His principal interests include tisbiochemistry of cancer, and the served with a smile. dosimetry and evaluation of radiation treatment relative to partial body and whole body exposure.

Comas will be introduced by Roger Cloutier, Radiation Safety Officer for ORAU. All HPS members are urged to attend this interesting meeting.

Group Insurance Plan For '66 Sees Refund

Participants in the Group Insurance Plan in the three Union Carbide plants for 1966 will share a total of \$155,430 in dividends this week. The checks (amounting to 12 per cent of the total amount paid) were mailed to employees' homes Monday. In addition to the refund, there were \$1,980,000 in death, sickness and accident benefits paid out last year. This compares to \$1,800,000 paid in 1965 . . . with \$137,760 refunded in dividends.

Benefits going to employees and their families through the tinguished medieval scholar, wonpast years have been \$1,550,000 in 1963; \$1,850,000 in 1964; \$1,800,- more like a den mother than one tion, April 25. 000 paid in 1965 . . . and \$1,980,000 of the best-read women in the

Fall Accounts For 2nd Lost-Time Accident

Y-12 suffered its second losttime accident of the year Friday, April 14 when an employee in cracking several of his vertabrae.

The latest mishap brought to an end a string of 32 days, or approximately 963,000 man-hours.

Collect pay - not pain - for

Credit Union Adds A Bulletin Board

"Service" is the middle name of Y-12's Credit Union. And, in is now available to members.

A "For Sale" and "Wanted" bulletin board has gone up in the lobby for use by members, at the Special guest will be Dr. Frank Credit Union Office. If you have Persian kittens for sale . . . or diotherapist at want a bicycle built for two . . Oak Ridge As- or have minks for sale . . . the sociated Uni- bulletin board would be an ideal versities, who place for your notice.

You may call your "want ad" into the Credit Union, telephone apy and Health 3-7204. They can not, however, give out information already on erations." Dr. the board. Call your "want ad" in now; and sit back for results.

The bulletin board will be out in the front lobby of Y-12's Credit Union, where everyone can see it when they come in the door.

Do you have a used car for sale? . . or want to buy one? . . . does your little woman baby-sit for 10¢ an hour? . . . or do you have some water-skis you want to sell? . . . well, just call your Credit Union and let them advertise for

Like all the rest of the service sue sensitivity to radiation, the at Y-12's Credit Union, it is

Remember, the Credit Union is yours . . . use it!



Ride wanted from 325 Louisiana Avenue, Oak Ridge, to North or Biology Portal, straight day. Norma Bryson, plant phone 3-5858, home phone Oak Ridge 483-8397.

'Absence Of Cello' Next Playhouse Opus

The extremely witty and attractive comedy "Absence of a Cello" opens Friday, April 28, at 8:20 p.m. at the Oak Ridge Playhouse. The cello belongs to the scientist who loves to play in quartets in his spare time. His wife, a disders if perhaps she shouldn't act country, and in one last desperate attempt to act like a typical April 20. American family, they persuade their hard-drinking, horse-betting, wacky neighbor to play the cheerful, homey grandma type.

The comedy will be next weekend, April 28, 29 . . . and Thursday, Friday, Saturday and Sun-Area Five Maintenance fell, day, May 4, 5, 6, and 7. Season memberships for the Playhouse's Silver Anniversary year may also be purchased at the Box Office throughout the run of "Absence."

Reservations may be obtained by calling Oak Ridge telephone CONGRATULATIONS TO THESE ELECTRICIANS in Research Services, who have accomplished a safety

Enviable Safety Record For Plant

record that would be hard for any group to surpass. These men have performed their jobs since February, 1963, without a single injury of any kind. They are, from left on the front row, F. J. Russell, R. M. Rowan, R. L. Jennings. In the back row are E. Symons, foreman; J. P. Ross, E. K. Delong and J. L. Research Service Electricians Set

group of electricians is very proud their efforts are directed toward of an outstanding safety performance. These men have performed their jobs since 1963 without a single injury of any kind.

to potentially serious hazards in their type work every day, this is an accomplishment of which they can be proud.

The Maintenance Division recognizes the safety accomplishments of these individuals and it would be well for all Y-12ers to follow the sterling example set by this group.

Safety does not come automatically. It is something that requires thinking and acting safely everywhere all the time. These



"April is the cruellest month, breeding lilacs out of the dead land," said the poet. Not so for the following Y-12ers celebrating plant. milestones with Union Carbide Corporation. Congratulations.

20 YEARS Troy L. Curnutt, Jr., Dispatching Department, April 20.

Jane B. Bowen, Product Engineering, April 23. Ernest F. Greer, Fire Preven-

15 YEARS

Billy M. Heidel, H-1 Foundry, should be. William B. Crowder, ORNL

Chemical Services, April 21. Dennis L. Moore, Electrical Department, April 21.

Ralph B. Stonecipher, Chemical Services, April 21.

James E. Bartholomew, Electri-

cal Engineering, April 23. Robert C. Dreyer, Graphics and Public Information, April 23. Earl W. Smith, Gage Certifica-

tion Laboratory, April 23. Calvin H. Goins, Buildings, Grounds and Maintenance Shops

Down in Building 9204-3 a men are interested in safety and job performance that is free from accidents and injuries.

A hearty salute to this group for a record as well as a contribu-Inasmuch as they are exposed tion to the overall Y-12 safety program.

Reactor Division

Continued from Page 1 Orthopedist, recently spoke on the "Mechanics of Injuries to the Human Body."

Harry Hoy, Thermonuclear Division, has talked to the group on "The Pulse of Life." Dr. B. R. Fish, Knoxville, spoke on air pollution, the safety and wellbeing of society in today's atmosphere.

Small Division

Slightly over 300 scientists, engineers and technical personnel and the clerical personnel necessary to support these groups, make up the Division.

Considering the relatively small number of personnel in the divithe highest of any group in the

The Reactor Division is under the direction of Samuel E. Beall. Robert Helton is Safety Coordinator for the group, and Y-12's bide Corporation. Safety Department's E. L. Bentley provides continuous assistance and advice to the group.

Last Chance To Enter Wallace Hills Outing

An entry form again appears in this issue of the Bulletin for April 29's big golf tournament . . at Wallace Hills, Maryville.

The greens fee over in Blount County is \$3, we're told . . . but it doesn't have to be paid now. Just bring it with you at the tournament.

Society For Metals Meeting Is Tonight

Robert E. Oglivie, associate professor of metallurgy, and head of the X-Ray and Electron Optics Laboratory, at Massachusetts Institute of Technology, will speak tonight to the American Society for Metals local chapter. The meeting is set at the Oak Ridge Country Club.

The ASM urges members to mark May 13 on the calendar, as it plans Ladies' Night. Dinner and dancing at the Alcoa Country Club are planned. Dig into your closet now, advised the ASM, and come up with your best party dress, dinner jacket, or anything left over from the last wedding you attended. Cost of the entire evening will be \$9 per couple.

Colleges Of Tomorrow On '21st Century'

Impact of teaching technology on colleges in the 21st century, and changing patterns in traditional teaching practices will be reported on "The 21st Century" broadcast "The Class of '01," Sunsion, the time record stands among day, April 23. The color-cast is carried locally on WBIR-TV Channel 10, from 6 until 6:30 p.m. Sundays. The series is produced by CBS News and sponsored in the public interest by Union Car-

CBS News Correspondent Walter Cronkite, through interviews with leading educators on college The Division is extremely proud and university campuses throughof its contribution to Y-12's over- out the country, will report on all safety picture, and well it the explosive increase in demand for education and educators the college class of the year 2001 may number 15 million - and possible means of meeting this demand. The teacher shortage -36,000 less than needed by 1970 will also be examined.

> and tee-off times will be drawn the following day. Foursome leaders will be notified of their exact tee-off time.

ART OF DIPLOMACY

Applications will be taken as the art of saying "nice doggie" through next Wednesday, April while you are picking up a stick.